Info-Hams Digest   Wed, 18 Aug 93   Volume 93 : Issue 987

Today's Topics:
                Alpha Bravo Charlie Delta alphabets: revised
                    Better 2M HT than Radio Shack?
                  Bootlegger At ARRL N.E. Convention
                  CMOS Super Keyer II & TS-520S ?
                  Crossband Repeat ICOM 2410 problem
                    Don't order those pizzas yet!
                        Handhelds on airplane
                    HardWare Mods Alinco DR-130
   Is there such thing as an omnidirectional antenna in 3 dimensions?
      Motorola's Bravo Plus Paging Decoder with RS-232 serial port
                    Need information on duplexers
                          Schemtic Wanted!
                  suggestions for tone detector
                          TS-50, u like?
              What is the next group of calls for Techs.?

Date: 17 Aug 93 13:43:44 EST
From: titan.ksc.nasa.gov!titan.ksc.nasa.gov!nntp@ames.arpa
Subject: Alpha Bravo Charlie Delta alphabets: revised
To: info-hams@ucsd.edu

In article <1993Aug17.005612.27790@infonode.ingr.com>, ktappe@infonode.ingr.com
(J. Kurt Tappe) says:
>

>bck1@cl.cam.ac.uk (Brian Kelk) writes:
>
>>Here is a collection of alphabets of the Alpha Bravo
>>Charlie Delta kind, as used for spelling things out over
>>radio links.

Anyone know what the Russian phonetics for the cyrillic alphabet are?

David.

Date: 17 Aug 1993 14:07:05 -0400
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!noc.near.net!
news.delphi.com!news.delphi.com!not-for-mail@network.ucsd.edu
Subject: Better 2M HT than Radio Shack?
To: info-hams@ucsd.edu

LORIT@SIUCVMB.SIU.EDU writes:

>Bravo, Dave! I too own a Standard C168A and am dismayed that more people don't
>look beyond the same old shit when buying an HT. Today, most HT's have the all
>the bells and whistles, the trick to finding a great HT is in the margins. How
>long will the battery last? Will I get so much intermod that it's useless on
>anything but the dummy-load rubber duck that came with it? These are the kinds
>of questions people should ask when buying an HT thesedays, but how many people
>do? I always hear people complain about the intermod on their TH-78A or DJ-580
>and crappy battery life on their Icom. Well, before you plunk your hard-earned
>money down, look at what you're buying. An Alinco that gets so much intermod
>that you can't use it on an external antenna is not a great rig, no matter how
>cheap. It's nice that a Yaesu FT-530 has 82 memories and dual in-band receive,
>but what good is that if all you can hear is intermod? The same holds true for
>the TH-78A, despite it's built in arcade game. The test of an HT is how well
>you can use it, and the Standard has thus far exceeded all of my expectations,
>as well as the advertised claims made by Standard. It's also built like a brick
>shithouse.

I have a Realistic HTX-202 and love it because it does not receive out of
band and does not have intermod problems. I have heard other HTs pick up
royal trash whereas the HTX-202 remained clear as a bell. Of course, it
can't do anything about the intermod coming over the repeaters. :-(

The aspects of the HTX-202 I do not like are its short battery life on
transmit (it lasts 14+ hours typically on receive) and the fact that its
low-power setting can't be easily reduced -- two to three watts is often
much more than I need for getting into the repeaters with a 5/8-wave
antenna. I can probably get into the 146.940 repeater in Louisville
with a paper clip on low power. :-)

-- Greg KE4DPX

Date: Tue, 17 Aug 1993 23:22:18 GMT
From: mentor.cc.purdue.edu!sage.cc.purdue.edu!blumb@purdue.edu
Subject: Bootlegger At ARRL N.E. Convention
To: info-hams@ucsd.edu

dadams@cray.com writes:
>gary@ke4zv.uucp (Gary Coffman) writes:
>|(Conway Yee) writes:
>|>
>|>As a citizen of the US, you are NOT required to carry around ANY form of
>|>identification.
>|
>|Maybe not, but it's a misdemeanor to refuse to give your correct
>|name to a law officer when requested to identify yourself.
>
>What?!? What ever happened to "the right to remain silent"? What about
>the fifth amendment?
>

Right to remain silent applies when you are placed under arrest.
Until you are arrested, you are required to cooperate with law enforcement
officers. Failure to do so is "obstructing justice."
--
Bill Blum blumb@sage.cc.purdue.edu   Purdue University, W. Lafayette, IN
PGP 2.3 key available by finger

Date: 17 Aug 93 23:27:28 EST
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!math.ohio-
state.edu!magnus.acs.ohio-state.edu!bgsuvax!uoft02.utoledo.edu!tulip!
mohan@network.ucsd.edu
Subject: CMOS Super Keyer II & TS-520S ?
To: info-hams@ucsd.edu

Hello,

I have a question for those using the CMOS Super Keyer II with TS-520S.

Did you have to add a Level-converter circuit like described in the article
  "Cheap and Easy Control-Signal Level Converters" in QST, February 1990.
or are the Keyer levels ok for the TS-520S.

Thanks for any information you provide.

--mohan

===
+ Mohanakrishna Pakkurti   + mohan@jupiter.cse.utoledo.edu   +
+ HOME: 2239 University Hills Blvd #204, Toledo OH 43606. Phone:(419)536-9073 +
===

Date: 18 Aug 93 14:44:13 +1200
From: waikato!waikato.ac.nz!barhodes@decwrl.dec.com
Subject: Crossband Repeat ICOM 2410 problem
To: info-hams@ucsd.edu

Can any ICOM 2410 users out there tell me why my rig wont go into cross
band repeater mode??? i have got the mod sheet for it and have tried
the keystrokes for the function but-   nothing???. Can anyone shed some
light on the problem please.

Also has anyone got a softkey entry for switching in/out the bandpass filter
on the UHF side of my ICOM W2 ??? if the W2 has this feature it would solve
the intermod problems associeated with this rig once expanded.
(there is a softkey mod for the VHF side which switches in/out a bandpass
filter and also switches in an AM detector when below 130 megs)

Date: 17 Aug 1993 20:16:50 GMT
From: swrinde!gatech!howland.reston.ans.net!noc.near.net!news.bbn.com!bbn.com!
levin@network.ucsd.edu
Subject: Don't order those pizzas yet!
To: info-hams@ucsd.edu

Note the following from a fresh ARRL bulletin:

  ZCZC AG31
  QST de W1AW
  ARRL Bulletin 89 ARLB089
  >From ARRL Headquarters
  Newington CT August 18, 1993
  To all radio amateurs

  SB QST ARL ARLB089
  ARLB089 Part 97.113 change

  Effective date for new 97.113 rules

September 12, 1993 is the effective date for new rules in Section
   97.113 concerning prohibited transmissions. This is action taken
   on PR Docket 92-136, the Report and Order adopted by the FCC on July
   15, 1993. See September QST for details.
   NNNN
   /EX

Don't be in too big a hurry to order your pizzas via autopatch!
(Followups directed to .policy)

     /JBL   KD1ON

=
Nets: levin@bbn.com |
pots: (617)873-3463 | "I gotta go."
KD1ON (@KB4N.NH.USA) | -- I. Shoales

Date: 17 Aug 1993 12:46:48 -0700
From: destroyer!nntp.cs.ubc.ca!nntp.unbc.edu!nntp.unbc.edu!not-for-
mail@uunet.uu.net
Subject: Handhelds on airplane
To: info-hams@ucsd.edu

ksr@schunix.dmc.com (Kevin R.Sullivan) writes:

>With the increasing popularity of
>hand-held cellphones, they're seeing a lot of people carrying similar-
>looking units. In fact, I'm often reminded not to use my "phone" in
>flight (a warning, by the way, that's equally valid for the HT).

Yes, cellular phones have made it much easier to get an HT through
security. Of course this only works when you have a DTMF pad attached
to the HT.

The security people at Pearson (Toronto) thought my FT-470 was the
neatest "cell phone" they had ever seen :-)

--
Lyndon Nerenberg   <lyndon@unbc.edu>
Sr. Operating Systems Programmer
University of Northern British Columbia, Prince George, BC, Canada
 --lyndon

Date: 18 Aug 1993 10:45:40 GMT
From: sdd.hp.com!spool.mu.edu!howland.reston.ans.net!usenet.ins.cwru.edu!
cleveland.Freenet.Edu!ak667@network.ucsd.edu
Subject: HardWare Mods Alinco DR-130
To: info-hams@ucsd.edu

I'm looking for the hardware mods for the Alinco Dr-130 Mobile
2m radio.. I've heard they're out there, but i do not know where
to obtain them. If anyone has them and/or knows where to get them
PLEASE let me know!!!

Jeff
--
- N8YNR (Amateur Radio) - | Jeff S. Garvas | Snail mail all Hate Mail,
- Licensed to transmit - | P.O. Box 25326 | Donations, Anonymous "Hi!"
146.82 (Cleveland Area Rptr) | Garfield Hgts. OH | <=--------------------
ak667@po.cwru.edu (InterNet) | 44125 | Help! My brain dumped core

----

Date: 18 Aug 1993 06:02:06 GMT
From: europa.eng.gtefsd.com!mozart.amil.jhu.edu!ishtar.med.jhu.edu!
roberts@uunet.uu.net
Subject: Is there such thing as an omnidirectional antenna in 3 dimensions?
To: info-hams@ucsd.edu

[I originally posted this to sci.electronics, but I thought that the
device that I'm looking for might be something that is in common use
by amateurs and broadcasters. Sorry if it doesn't seem relevant. dcr]

Hi all,

I'm looking for an antenna of some sort that I can use as an
omnidirectional field strength indicator. We have a system that
produces 3 orthogonal (at 90 degrees to one another) magnetic fields
at 3 frequencies. The 'emitters' are mounted on a 40 inch cubical
frame, so that at the center of the cube, you get 3 fields that are
approximately orthogonal to each other. We use it to measure the gaze
direction of the eyeball by placing a small coil of wire embedded in a
contact lens onto the eye. A wire is run from the eyecoil to an
amplifier which separates the 3 frequencies and gives us the strength
of each of the fields as picked up by the (very directional) coil of
wire. To get our math right, we need to detect the relative strength
of the 3 fields very near the eyecoil.

Date: Tue, 17 Aug 93 11:34:52 PDT
From: news.cerf.net!crash!slic!mikey@network.ucsd.edu
Subject: Motorola's Bravo Plus Paging Decoder with RS-232 serial port
To: info-hams@ucsd.edu

I had a bud send this to me. Hadn't heard about this product (at
such a low price) til now. Thought it might be of interest...

RNet(TM) Paging Data Receiver
o   Based on the company's BRAVO Plus(TM) pager technology
o   20-character message buffer
o   Programmable headers and trailers to let users define specific
     characters at the beginning and end of transmissions

Motorola introduced its RNet(TM) Paging Data Receiver, a board level
OEM product that received and decodes data broadcast over existing
paging networks. The receiver operates on 138-174, 435-480 and 900
MHz channels. Data can be received, decoded and sent at 1200, 2400 or
9600 baud via a serial RS-232 or TTL interface to the manufactuers
host equipment. Equipped with three output control ports, the unit
can be programmed to activate or deactivate various electronic
switches. The receive can accommodate any size and number of
seven-bit ASCII numeric or alphanumeric messages, limited only by the
speed of the data acceptance from the host computer. The unit's
multiple addressing capability includes four addresses and can use
four functions within each address. For Group Call applications,
receivers programmed with the same Group Call code are alerted to a
message simulraneously with a single transmission. The receiver
measures 4.3 x 2.8 x 0.75 inches and is priced at $130 per unit, based
on quantity.

Motorola, Wireless Data LAN Div,. 50 E.
Commerce Drive, Schaumburg, IL 60173

Follow-up to rec.radio.amatuer.misc

--
  | Mike Shirley / San Diego, CA USA / HAM:WB6WUI / mikey@crash.cts.com |
  `--'

Date: Wed, 18 Aug 1993 10:17:25 GMT
From: swrinde!emory!sol.ctr.columbia.edu!destroyer!newsrelay.iastate.edu!

news.iastate.edu!jdwhite@network.ucsd.edu
Subject: Need information on duplexers
To: info-hams@ucsd.edu

    I would like to learn more about duplexers and how to maintain and
"configure" them. Any suggestions on where I might look for some good
information. I looked in the '92 Handbook, but all I found was a paragraph on
what duplexers were; nothing on how to maintain them.

-Jason White, N0RWU
Repeater Chairman, WA0KHF Repeater
Cyclone Amateur Radio Club
Iowa State University
Ames, Iowa

Date: 18 Aug 1993 10:57:12 GMT
From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!cleveland.Freenet.Edu!
ak667@network.ucsd.edu
Subject: Schemtic Wanted!
To: info-hams@ucsd.edu

Hiya Everyone! I've been tipped by a friend about a hamfest participant
who was selling a really interesting toy. So interesting it woke me up
at 6:52 in the morning to post this.. heh.. Not really, but here goes.

If anyone out there knows, approximatly how much power do Police radar
guns use?

Would anyone have a Schematic for a Radar Emitter? i'm looking for one
i can make approximatly the size of a Garage Door opener, and hopefully
easily! Also i was wondering if one had such an item powered by a 9v
battery, and it was wired for a vehicle's cig lighter, would output
power increase, or would you be morelikely to fry the thing?

I also heard from someone, that Popular Electronics has made a
schematic detailing this idea, but i never had a subscription =(

Thanks in advance!
Jeff

--
- N8YNR (Amateur Radio) - | Jeff S. Garvas | Snail mail all Hate Mail,
- Licensed to transmit - | P.O. Box 25326 | Donations, Anonymous "Hi!"
146.82 (Cleveland Area Rptr) | Garfield Hgts. OH | <=----------------------
ak667@po.cwru.edu (InterNet) | 44125 | Help! My brain dumped core

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In article <1993Aug12.214408.24795@Princeton.EDU> chinatti@phoenix.
Princeton.EDU (Stephen Anthony Chinatti) writes:
>I am looking for advice on building a circuit that I can use to decode
>2-tone sequential alert tones (i.e. Motorola Quick-Call II) off of the
>audio output of a receiver........ My first question is does
>anyone have any suggestions on a good (possibly active filter, maybe
>something else) IC that can be used for this type of application? I
>would like to keep the complexity/number-of-components/cost low, but
>that is not a HUGE concern. Also, is anyone familiar with the scheme
>that Motorola uses for their Minitor (or similar) series pagers for
>tone-decoding?
>
>   Thanks in advance,
>   Steve

You might consider using the filter that Mot puts into the Minitor,
part number NLN7834A, "Permacode Active Filter". I bought a few at a
hamfest last week for $10.00 each and the Minitor manuals, 68P81042C60,
and 68P81042C50-A, also for $10.00.

The filter has four pins on .1 inch spacing: in, out, +1.2VDC, and gnd.
You must capacitively couple the input and output. I measured the 3db
bandwidth of a 902.3 Hz filter to be about 6 Hz. At resonance, a few
mV of tone in will produce a few hundred mV of tone out. Mix in a
couple op-amps and some logic. The manual gives typical signal levels,
DC voltages, and circuit connections.

Paul Kasley, wa9vyb

Date: 16 Aug 93 20:03:27 GMT
From: psinntp!newsserver.pixel.kodak.com!kodak!eastman!sun198h!wroth@uunet.uu.net
Subject: TS-50, u like?
To: info-hams@ucsd.edu

I just ordered a Kenwood TS-50S mobile transciever, and I wondered if
anyone has
bought one, and how they like it. How is the noise blanker for drowning
out ignition
noise? What needs to be added for RS-232 control? Is it as simple as
adding 2 IC's
as with the TS-440S?

Thanks in advance. 73's from Wayne, WA2N

Date: 18 Aug 93 02:15:52 GMT
From: ogicse!uwm.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!
usenet.ins.cwru.edu!neoucom.edu!wtm@network.ucsd.edu
Subject: What is the next group of calls for Techs.?
To: info-hams@ucsd.edu

We're about out of N8xxx callsigns here. The local VE team said
that the next group of calls would probably be in the KB8xxx call
group. That seems a bit unexpected since the novice calls are
currently issuing with the KB8 prefix.

What I'm wondering is, why are we going back to the Kx call prefix
instead of continuing with the Nx prefix for technician and
general?

I guess I don't mind my current N8WED. It was interesting enough
that I decided to keep that call eventhough I have an advanced
license. ...and it is reasonably short in CW.

--
Bill Mayhew   NEOUCOM Computer Services Department
Rootstown, OH 44272-9995 USA   phone: 216-325-2511
wtm@uhura.neoucom.edu   amateur radio 146.58: N8WED

Date: (null)
From: (null)
Thanks in advance,
dale, roberts@ishtar.med.jhu.edu

Date: 17 Aug 1993 13:55:24 -0400
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!noc.near.net!
news.delphi.com!news.delphi.com!not-for-mail@network.ucsd.edu
To: info-hams@ucsd.edu

References <1993Aug16.144713@IASTATE.EDU>, <24p1a8$8go@crchh327.bnr.ca>,
<24p6tu$geg@ornews.intel.com>hi
Subject : Re: Question on Letter/Word Representations

zardoz@ornews.intel.com (Jim Garver) writes:

>When I spent some time in Vancouver,BC I learned that they seem to pronounce
>the province name as KE-BECK while the capital city name is KAY-BECK. But
>what do West Coasters know about French?
>Try pronouncing Louisville, as in Kentucky, the way the locals do it.
>My home state here is more properly pronounced ORI-GUN than ORY-GUN, though
>its maybe somewhere in between. Don't ask me, I grew up here. When I visited
>Oregon, Ohio, I was shocked to learn they pronounce their city R-EH-GONE.

I moved to LOU-UH-VULL Kentucky about four years ago but I still pronounce
it LOU-EE-VILL. Then again, I grew up in HOW-STUN county Georgia as opposed
to HYU-STUN Texas even though they are spelled the same. By the way, have
you ever been to JOYZEE? :-)

    -- Greg KE4DPX

Date: 17 Aug 93 19:53:29 GMT
From: walter!porthos!dancer!whs70@RUTGERS.EDU
To: info-hams@ucsd.edu

References <1993Aug12.153325.23719@ke4zv.uucp>, <30722@ksr.com>,
<24r3if$4li@news.delphi.com>
Subject : Re: Bootlegger At ARRL N.E. Convention

In article <24r3if$4li@news.delphi.com> gregl@news.delphi.com (Greg Law) writes:
>jfw@ksr.com (John F. Woods) writes:
>
>>gary@ke4zv.uucp (Gary Coffman) writes:
>>>In article <jfhCBMC0B.L9L@netcom.com> jfh@netcom.com (Jack Hamilton) writes:

```
>>>>collinst@esvx19.es.dupont.com wrote:
>>>>>You wanted bet your license that if the FCC sees you with a transmitter
>>>>>on your belt, asks to see your license and you refuse that they wouldn't
>>>>>suspend your license?
>>>>How would they know which license to suspend?
>>>The FCC has statutory authority to inspect any station for any reason
>>>at any reasonable hour.
>
>>And to directly answer Jack's actual question, though not definitively,
>>they would probably find out when your lawyer let them know as part of
>>the plea bargaining arrangement.  If you refuse to show your license, they
>>probably have "probable cause" to arrest you on the spot for unlicensed
>>operation (remember, "probable cause" doesn't even have to come close to
>>certainty).  Childish games are rarely of much value when dealing with
>>law enforcement personnel.
>
>If you really want the definitive answer, purchase a copy of Part 97
>Rules and Regulations and READ IT. It states, in plain English, that
>the operating station and operator/station license is subject to inspection
>by the FCC. . . no reason is needed nor required. Any licensee refusing
>an inspection is subject to revocation of the license and/or fines.
>    -- Greg KE4DPX

The "definitive" answer doesn't cover an unlicensed individual however.
Remember...ownership/possession of ham equipment is not illegal.  The original
thread of this discussion had to do with a person belived to be unlicensed
who had an HT (and may actually have used it, although no posting I've seen
offered any conclusive evidence of that).

So, continuing, it isn't clear to me (other than because part 97 currently
states it) that a ham with an HT should be subject to anymore interogation
or license inquiry than a non-ham with an HT.  That is even more at issue
these days since the FCC no longer issues station licenses and thus, there
no longer is any clearly defined (by location) amateur station license
on FCC record.

Now it certainly seems possible that I might be out somewhere with my HT
and "listening," but not transmitting with an HT.  Under that scenario I don't
need to have my license with me as I see it.  Why should I?  Therefore,
unless the FCC had definitive proof that I transmitted on the HT AND then
inquired as to my license, I can't see what I'd be in violation of.

Standard Disclaimer- Any opinions, etc. are mine and NOT my employer's.
-----------------------------------------------------------------------
Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)
Morristown, NJ              email via UUCP       bcr!cc!whs70
201-829-2879 Weekdays       email via Internet  whs70@cc.bellcore.com
```

Date: 17 Aug 93 20:32:38 GMT
From: news.service.uci.edu!mstrong@network.ucsd.edu
To: info-hams@ucsd.edu

References <CBAJ2F.IwG@murdoch.acc.Virginia.EDU>, <srtestCBIGtr.6Et@netcom.com>,
<SGXot*Z+x@lhaven.UUmh.Ab.Ca>
Subject : Re: Yaesu FT-530 opinions

In article <SGXot*Z+x@lhaven.UUmh.Ab.Ca> dreamer@lhaven.UUmh.Ab.Ca (Lawrence "The
Dreamer" Chen) writes:
>In article <CBt7Kv.F9t@murdoch.acc.Virginia.EDU>, Jon Gefaell writes:

>> In article <NU5ot*cUx@lhaven.uumh.ab.ca> dreamer@lhaven.UUmh.Ab.Ca (Lawrence
"The Dreamer" Chen) writes:
>> >
>> >How do I go about determining if my FT530 is a candidate for this intermod
fix,
>> >and how do I go about getting it performed?
----

can someone email me about these intermod problems???? I have an FT530 and
have never had any problems (I have the preworked model)....

cheers!

mike strong
mstrong@uci.edu

End of Info-Hams Digest V93 #987
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